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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

23389 7590 05/17/2010 SCULLY SCOTT MURPHY & PRESSER, PC 400 GARDER CITY PLAZA SUITE 300

GARDEN CITY NY 11530

EXAMINER					
BAIG, ADNAN					
ART UNIT	PAPER NUMBER				
2461					
DATE MAILED: 05/17/2	010				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/590,343	08/24/2006	Yasushi Maruta	20165	8411		
TITLE OF INVENTION: CDMA RECEIVING APPARATUS AND METHOD						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/17/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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GARDEN CITY	, NY 11530						(Depositor's name)
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	08/17/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
BAIG, A		246I	370-441000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form FITOSH 212) attached.  — "Fee Address" indication (or "Fee Address" Indication form FITOSH47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(I) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or a 2 registered patent atto	For printing on the pastent front page, list  ) the names of up to 3 registered patent attorneys agents OR, alternatively, ) the name of a single firm (having as a member a  2  gistered attorney, or agent) and the names of up to registered patent a diorney, or agents. If no name is  3  tender, no name will be printed.			
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comj 3NEE		(B) RESIDENCE: (CITY	atent. If an assigne assignment. and STATE OR Co	OUNTR	Y)	ocument has been filed for
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	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no lon				
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10/590,343	08/24/2006	Yasushi Maruta	20165	8411	
23389 75	90 05/17/2010	EXAMINER			
SCULLY SCOT	F MURPHY & PRES	BAIG, ADNAN			
400 GARDEN CITY PLAZA			ART UNIT	PAPER NUMBER	
SUITE 300 GARDEN CITY, NY 11530			2461 DATE MAIL ED: 05/17/2010		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 537 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 537 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Application No. Applicant(s) 10/590 343 MARUTA ET AL. Notice of Allowability Examiner Art Unit ADNAN BAIG 2461 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 2/9/2010. 2. The allowed claim(s) is/are 1-12. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) X All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_\_\_ 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 6 Interview Summery (PTO-413) Notice of Draftperson's Patent Drawing Review (PTO-946). Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), T Examiner's Amendment/Comment

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Examiner, Art Unit 2461

/ADNAN BAIG/

Pacer No./Mail Date

of Biological Material

4. T Examiner's Comment Regarding Requirement for Deposit

9. ☐ Other

/Huy D Vu/

8. X Examiner's Statement of Reasons for Allowance

Supervisory Patent Examiner, Art Unit 2461

Art Unit: 2461

DETAILED ACTION

Allowable Subject Matter

Claims 1-12 are allowed.

The following is an examiners statement for reasons of allowance:

Regarding Claim 1, the prior art fails to teach the steps of a channel estimation value

correction circuit which corrects the channel estimation value from said channel

estimation circuit on the basis of a reception power fluctuation due to uplink

transmission power control which is caused by a timing offset between the individual

channel of the user and the shared channel:

a shared channel demodulation circuit which demodulates a signal corresponding to the

shared channel of the user which is obtained by performing despreading operation for

the radio reception output on the basis of the channel estimation value corrected by said

channel estimation value correction circuit.

Regarding Claim 7, the prior art fails to teach the steps of correcting the channel

estimation value calculated on the basis of a reception power fluctuation due to uplink

transmission power control which is caused by a timing offset between the individual

channel of the user and the shared channel:

Demodulating a signal corresponding to the shared channel of the user which is

obtained by performing despreading operation for the radio reception output on the

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basis of the channel estimation value corrected in the channel estimation value

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correction step.

3. In (US 2003/0058823), Nishimura discloses a CDMA receiver for performing

channel estimation of an individual channel received using pilot bits obtained by

despreading of the pilot bits with the known data for an uplink communication. The

individual channel consists of a pilot portion and a data portion. However the method

does not disclose the teaching of a channel estimation value correction circuit which

corrects the channel estimation value from said channel estimation circuit on the basis

of a reception power fluctuation due to uplink transmission power control which is

caused by a timing offset between the individual channel of the user and the shared

channel;

a shared channel demodulation circuit which demodulates a signal corresponding to the

shared channel of the user which is obtained by performing despreading operation for

the radio reception output on the basis of the channel estimation value corrected by said

channel estimation value correction circuit.

4. In (US 2004/0203397), Yoon discloses a CDMA receiver which generates

accurate estimates of a received signal forward link power control where a shared

channel and an Individual channel are multiplexed on a forward and reverse link

between a Base Station and Mobile Station. However the method does not disclose the

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teaching of a channel estimation value correction circuit which corrects the channel

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estimation value from said channel estimation circuit on the basis of a reception power

fluctuation due to uplink transmission power control which is caused by a timing offset

between the individual channel of the user and the shared channel:

a shared channel demodulation circuit which demodulates a signal corresponding to the

shared channel of the user which is obtained by performing despreading operation for

the radio reception output on the basis of the channel estimation value corrected by said

channel estimation value correction circuit.

5. In (USP 6,434,366), Harrison discloses a receiver for estimating adaptive array

weights for a pilot channel in relation to a traffic channel which are delayed for

synchronizing a slot in which they were requested with a slot in which they were used

by a transmitter. A synthesized pilot is generated and demodulated in the receiver.

However the method does not disclose the synthesized pilot generated based on the

calculated weights due to uplink transmission power control which is caused by a timing

offset between an individual channel and shared channel and therefore does not disclose a channel estimation value correction circuit which corrects the channel

estimation value from said channel estimation circuit on the basis of a reception power

fluctuation due to uplink transmission power control which is caused by a timing offset

between the individual channel of the user and the shared channel;

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a shared channel demodulation circuit which demodulates a signal corresponding to the shared channel of the user which is obtained by performing despreading operation for the radio reception output on the basis of the channel estimation value corrected by said channel estimation value correction circuit.

6. The dependant claims 2-6 and 8-12, being further limiting, definite and enabled by the specification, are also allowable. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ADNAN BAIG whose telephone number is (571) 270-7511. The examiner can normally be reached on Mon-Fri 7:30m-5:00pm eastern Every other Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ADNAN BAIG/ Examiner, Art Unit 2461